

Product Description

The type PC12 is a stainless steel single point load cell with complete hermetic sealing. It is designed for dynamic weighing processes.

Approvals

- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22

Application

- Check weighers and conveyor scales

Packed Weight

- 1.6 kg

Key Features

- Capacity of 20 kg
- Stainless steel construction
- Environmental Protection IP68 with complete hermetic sealing
- Maximum platform size up to 600 x 600 mm
- High input resistance

Available Accessories

- Compatible range of electronics

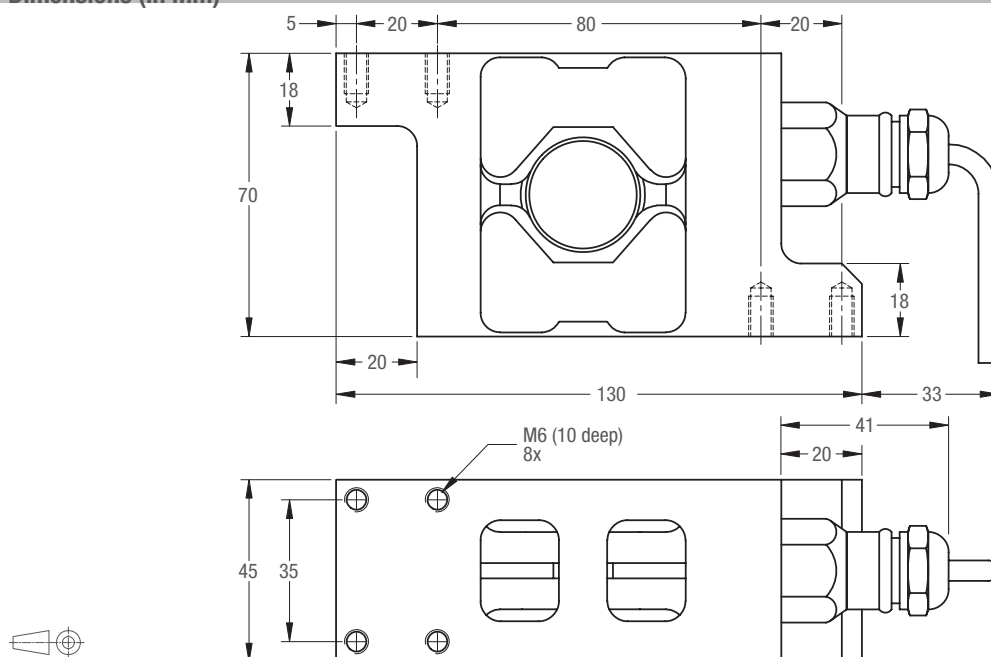
Specifications

Maximum capacity	(E _{max})	kg		20	
Accuracy class according to OIML R60			(GP)	C3	C3 MI 6
Maximum number of verification intervals	(n _{LC})		n.a.		3 000
Minimum load cell verification interval	(v _{min})		n.a.		E _{max} / 20 000
Temperature effect on minimum dead load output	(TC ₀)	%*RO/10°C	≤ ± 0.0400		≤ ± 0.0070
Temperature effect on sensitivity	(TC _{RO})	%*RO/10°C	≤ ± 0.0200		≤ ± 0.0100
Combined error		%*RO	≤ ± 0.0500	≤ ± 0.0200	≤ ± 0.0180
Non-linearity		%*RO	≤ ± 0.0400	≤ ± 0.0166	≤ ± 0.0166
Hysteresis		%*RO	≤ ± 0.0400	≤ ± 0.0166	≤ ± 0.0083
Creep error (30 minutes) / DR		%*RO	≤ ± 0.0600	≤ ± 0.0166	≤ ± 0.0083
Rated Output	(RO)	mV/V		2 ± 5%	
Zero balance		%*RO		≤ ± 5	
Excitation voltage		V		5...15	
Input resistance	(R _{LC})	Ω		1 100 ± 50	
Output resistance	(R _{out})	Ω		960 ± 50	
Insulation resistance (100 V DC)		MΩ		≥ 5 000	
Safe load limit	(E _{lim})	%*E _{max}		200	
Ultimate load		%*E _{max}		300	
Safe side load		%*E _{max}		100	
Maximum platform size; loading acc. to OIML R76		mm		600 x 600	
Maximum off centre distance at maximum capacity		mm		200	
Compensated temperature range		°C		-10...+40	
Operating temperature range		°C		-40...+80 (ATEX -40...+60)	
Load cell material				stainless steel 17-4 PH (1.4548)	
Sealing				complete hermetic sealing; cable entry sealed by glass to metal header	
Protection according EN 60 529				IP68 (up to 2 m water depth) / IP69K	

The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values.

The sum of Non-linearity, Hysteresis and TC_{RO} meets the requirements according to OIML R60 with p_{LC}=0.7.

Dimensions (in mm)



Mounting bolts M6 8.8; torque 10 Nm. Torque value assumes oiled threads.

Wiring

- The load cell is provided with a shielded, 6 conductor cable (AWG 26).
Cable jacket polyurethane
 - Cable length: 3 m
 - Cable diameter: 5 mm
 - The shield is floating
- On request the shield can be connected to the load cell body

